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<b>Started on</b>	Friday, 17 April 2020, 2:40 PM
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<b>State</b>	Finished
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<b>Completed on</b>	Friday, 17 April 2020, 2:50 PM
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<b>Time taken</b>	10 mins 43 secs
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<b>Grade</b>	<b>7.00</b> out of 10.00 ( <b>70%</b> )
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## Question 1

Correct

Mark 1.00 out of 1.00

```
public class Main {  
    public static void main(String args[]) {  
        int arr[] = {10, 20, 30, 40, 50};  
        for(int i=0; i < arr.length; i++)  
        {  
            System.out.print(" " + arr[i]);  
        }  
    }  
}
```

Select one:

- ☒ a. 10 20 30 40 50 ✓
- ☐ b. 50 40 30 20 10
- ☐ c. Compiler Error
- ☐ d. 10 20 30 40

Your answer is correct.

The correct answer is: 10 20 30 40 50


Question **2**

Incorrect

Mark 0.00 out of 1.00

Which of the following is FALSE about abstract classes in Java

Select one:

- ☒ a. A class can be made abstract without any abstract method  

- ☐ b. A class can inherit from multiple abstract classes.
- ☐ c. If we derive an abstract class and do not implement all the abstract methods, then the derived class should also be marked as abstract using 'abstract' keyword
- ☐ d. Abstract classes can have constructors

Your answer is incorrect.

The correct answer is: A class can inherit from multiple abstract classes.

Question **3**

Correct

Mark 1.00 out of 1.00

Which of the following is true about interfaces in java.

1. An interface can contain following type of members.  
....public, static, final fields (i.e., constants)  
....default and static methods with bodies
2. An instance of interface can be created.
3. A class can implement multiple interfaces.
4. Many classes can implement the same interface.

Select one:

- ☐ a. 1, 2 and 4
- ☒ b. 1, 3 and 4 ✓
- ☐ c. 2, 3 and 4
- ☐ d. 1, 2, 3 and 4

Your answer is correct.

The correct answer is: 1, 3 and 4

## Question 4

Correct

Mark 1.00 out of 1.00

which one creates an anonymous inner class from within class Bar?

```
class Boo
{
    Boo(String s) { }
    Boo() { }
}
class Bar extends Boo
{
    Bar() { }
    Bar(String s) {super(s);}
    void zoo()
    {
        // insert code here
    }
}
```

Select one:

- ☐ a. Boo f = new Boo.Bar(String s) { };
- ☐ b. Bar f = new Boo(String s) { };
- ☒ c. Boo f = new Bar() { }; ✓
- ☐ d. Boo f = new Boo(24) { };

Your answer is correct.

The correct answer is: Boo f = new Bar() { };

Question **5**

Correct

Mark 1.00 out of 1.00

Which statement, if placed in a class other than MyOuter or MyInner, instantiates an instance of the nested class?

```
public class MyOuter
{
    public static class MyInner
    {
        public static void foo() { }
    }
}
```

Select one:

- ☐ a. MyOuter.MyInner mi = new MyInner();
- ☐ b. MyInner mi = new MyOuter.MyInner();
- ☒ c. MyOuter.MyInner m = new MyOuter.MyInner(); ✓
- ☐ d. MyOuter m = new MyOuter();  
MyOuter.MyInner mi = m.new MyOuter.MyInner();

Your answer is correct.

The correct answer is: MyOuter.MyInner m = new MyOuter.MyInner();

Question **6**

Correct

Mark 1.00 out of 1.00

What two statements are true about properly overridden hashCode() and equals() methods?

1. hashCode() doesn't have to be overridden if equals() is.
2. equals() doesn't have to be overridden if hashCode() is.
3. hashCode() can always return the same value, regardless of the object that invoked it.
4. equals() can be true even if it's comparing different objects.

Select one:

- ☐ a. 2 and 3
- ☒ b. 3 and 4 ✓
- ☐ c. 1 and 3
- ☐ d. 1 and 2

Your answer is correct.

The correct answer is: 3 and 4

Question **7**

Correct

Mark 1.00 out of 1.00

What will be the output of the program?

```
public class Test
{
    private static int[] x;
    public static void main(String[] args)
    {
        System.out.println(x[0]);
    }
}
```

Select one:

- ☒ a. NullPointerException at runtime ✓
- ☐ b. 0
- ☐ c. null
- ☐ d. Compile Error

Your answer is correct.

The correct answer is: NullPointerException at runtime



Question **8**

Correct

Mark 1.00 out of 1.00

What will be the output of the program?

```
public class Test178
{
    public static void main(String[] args)
    {
        String s = "foo";
        Object o = (Object)s;
        if (s.equals(o))
        {
            System.out.print("AAA");
        }
        else
        {
            System.out.print("BBB");
        }
        if (o.equals(s))
        {
            System.out.print("CCC");
        }
        else
        {
            System.out.print("DDD");
        }
    }
}
```

Select one:

- ☐ a. BBBDDD
- ☐ b. AAADDD
- ☒ c. AAACCC ✓

☐ d. BBBCCC

Your answer is correct.

The correct answer is: AAACCC

Question **9**

Incorrect

Mark 0.00 out of 1.00

What will be the output of the program?

```
String x = "xyz";  
x.toUpperCase(); /* Line 2 */  
String y = x.replace('Y', 'y');  
y = y + "abc";  
System.out.println(y);
```

Select one:

- ☐ a. abcXyZ
- ☐ b. xyzabc
- ☐ c. abcxyz
- ☒ d. XyZabc ❌

Your answer is incorrect.

The correct answer is: xyzabc

Question **10**

Incorrect

Mark 0.00 out of 1.00

What will be the output of the program?

```
for (int i = 0; i < 4; i += 2)
{
    System.out.print(i + " ");
}
System.out.println(i); /* Line 5 */
```

Select one:

☒ a. 0 2 4 ❌

☐ b.

0 1 2 3 4

☐ c. 0 2 4 5

☐ d. Compilation fails.

Your answer is incorrect.

The correct answer is: Compilation fails.